

FIG. 1

170

STATION	equalizer pre-train value	Timing recovery pre-train value	AGC pre-train value	echo canceler pre-train value
1234	7	90, 215	5 dB	2.2
4321	-	-	4 dB	-
		⋮		

FIG. 2

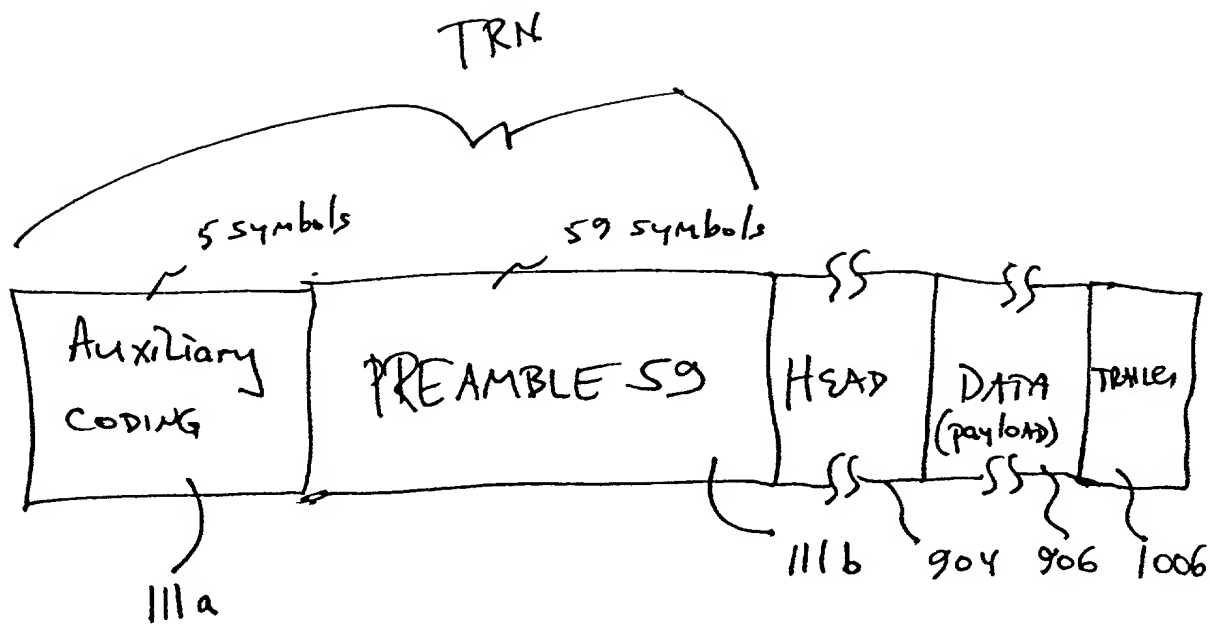


FIG. 3

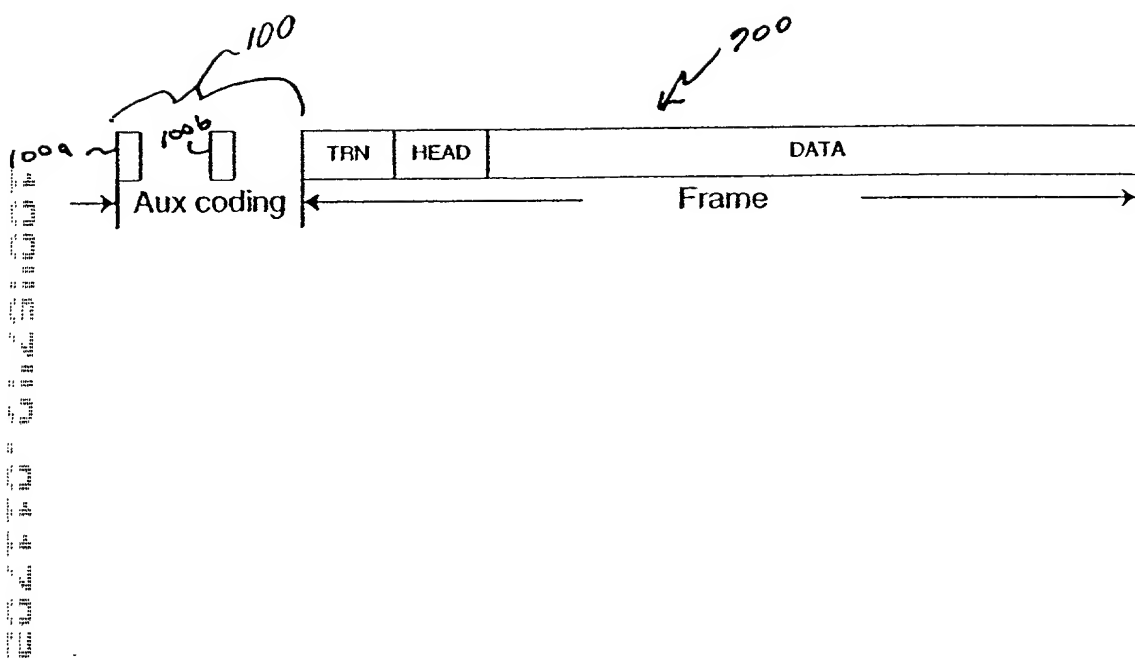


FIG. 4

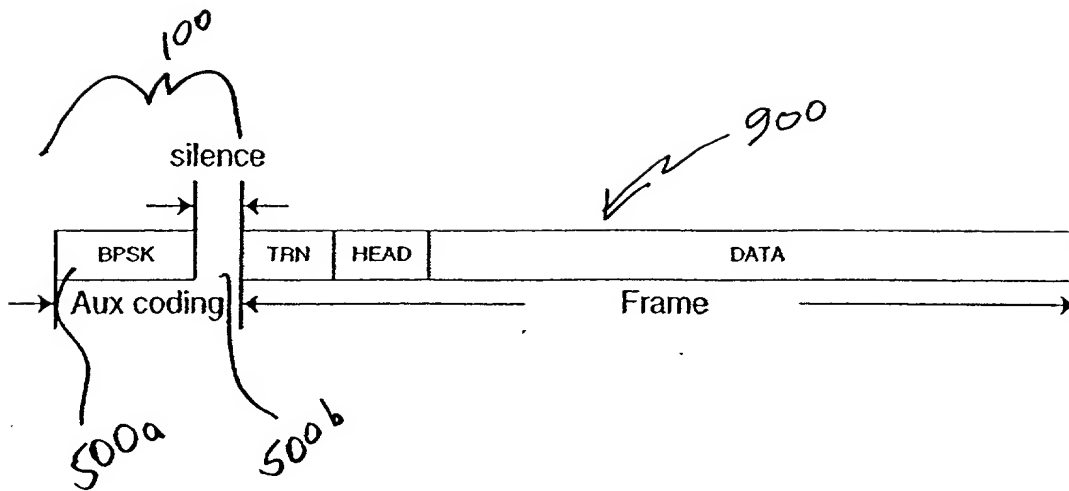


FIG. 5

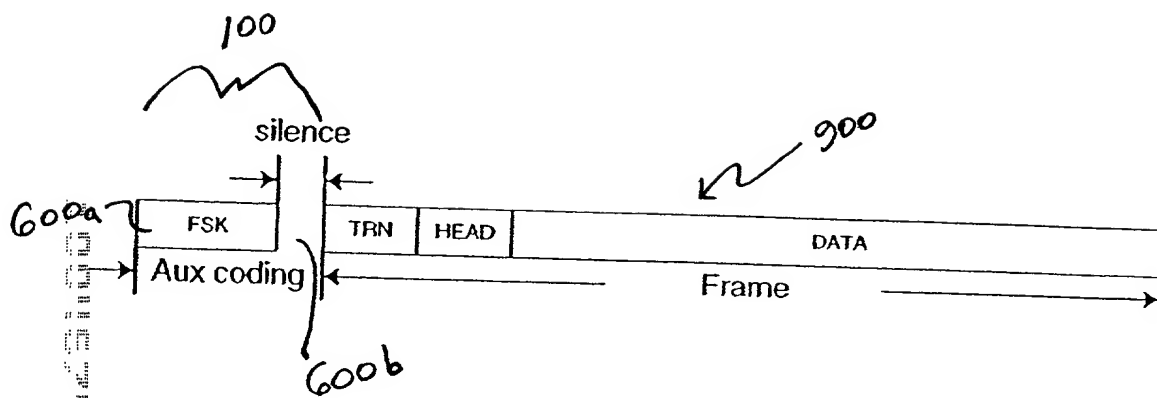
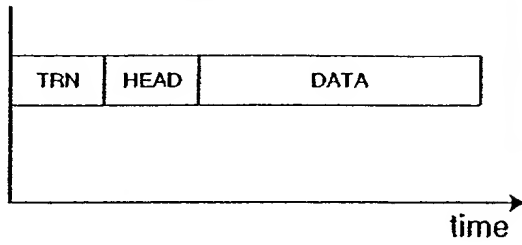
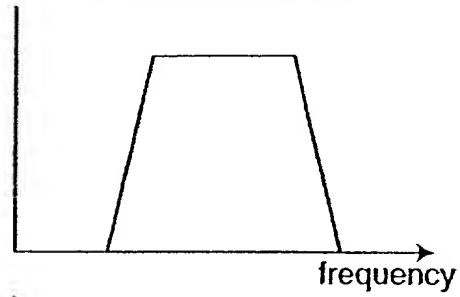


FIG. 6

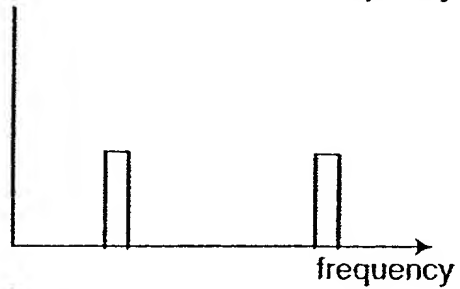
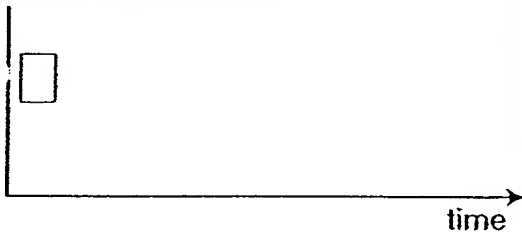
**Time domain**  
normal frame signal::



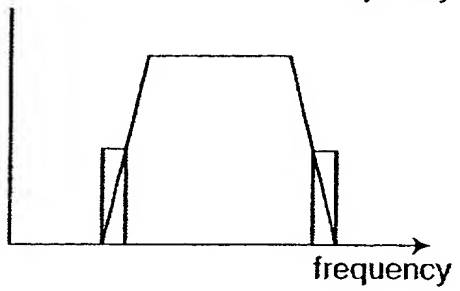
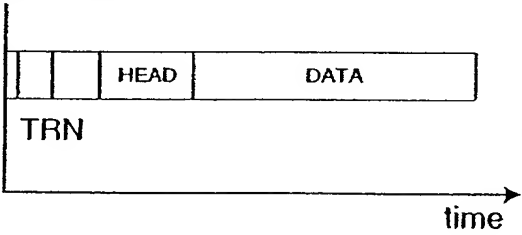
**Frequency domain**

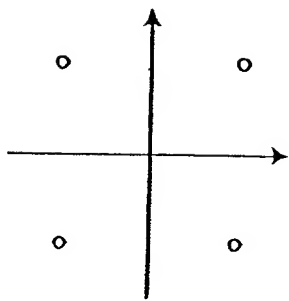


auxiliary coding signal:



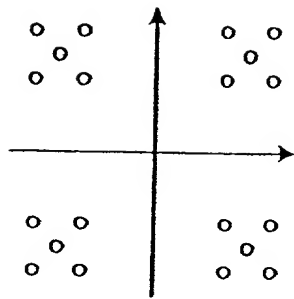
mixed signal:





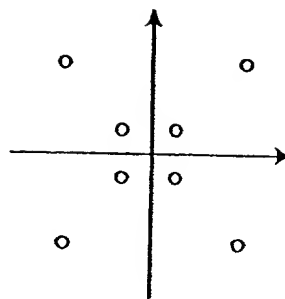
coding  
example 1

FIG. 8A



coding  
example 2

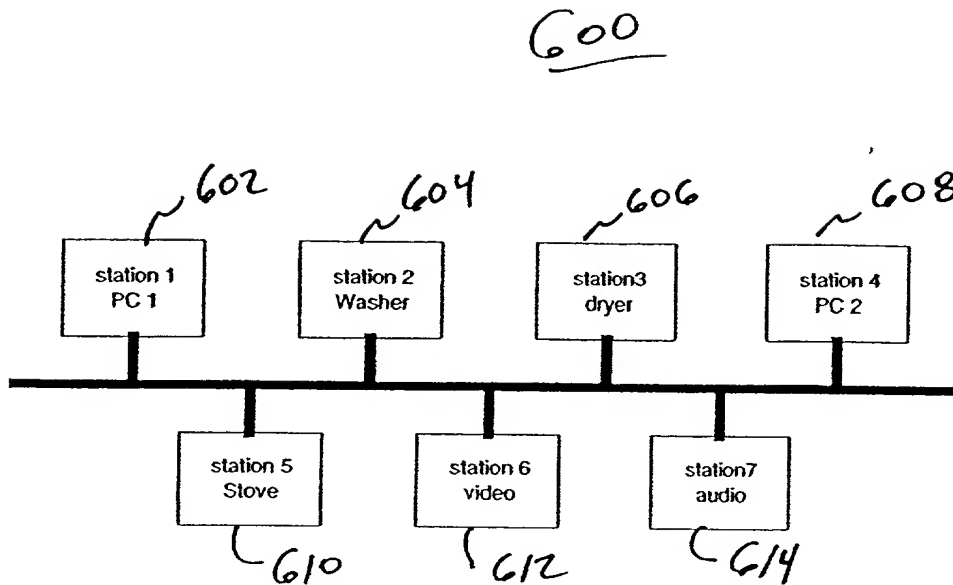
FIG. 8B



coding  
example 3

FIG. 8C





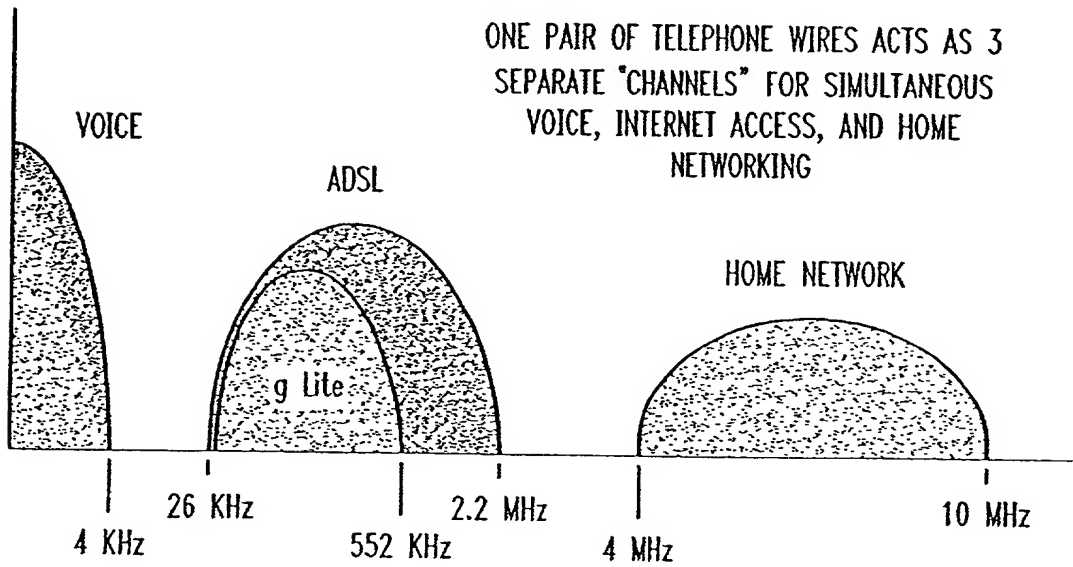
PRIOR ART

FIG. 9

FIG. 10

PRIOR ART

SPECTRAL ALLOCATION OF EXISTING SERVICES SHARING THE PHONELINE MEDIA



800

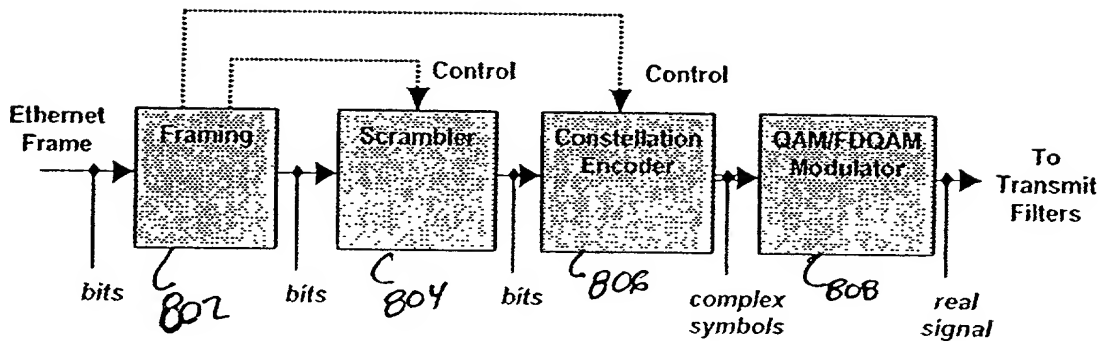
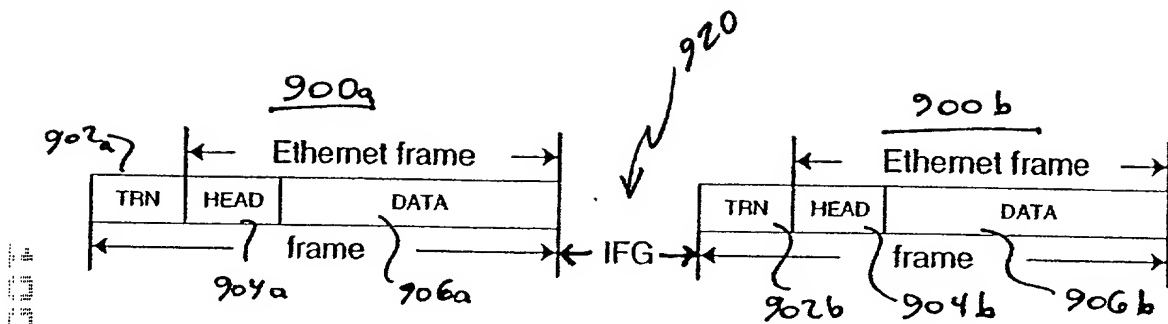


FIG. 11



Prior Art

FIG. 12

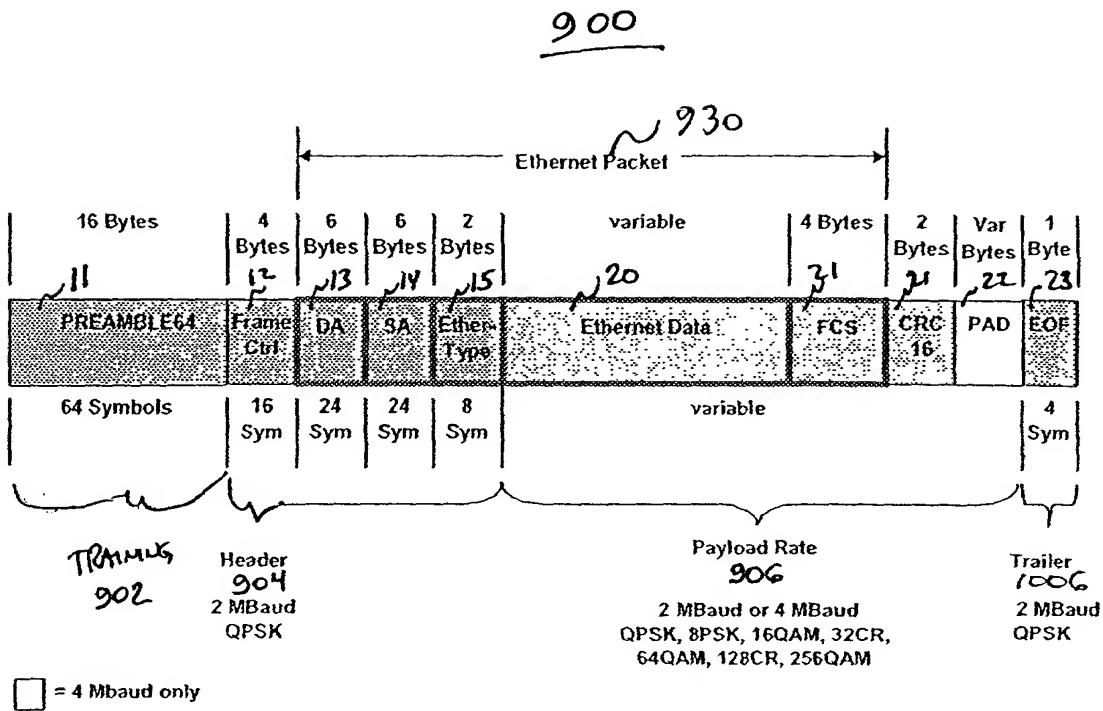


FIG. 13

Field	Bit Number	Bits	Description
FT	31:24	8	Frame Type. This field shall be set to zero by the transmitter. The receiver shall decode this field and discard the frame if it's anything other than zero.
RSVD	23	1	Reserved. This field shall be set to zero by the transmitter, and the receiver shall ignore it
PRI	22:20	3	Priority (0-7)
SI	19:16	4	Scrambler Initialization
PE	15:8	8	Payload Encoding
HCS	7:0	8	Header Check Sequence

FIG. 14